

### FIG.1

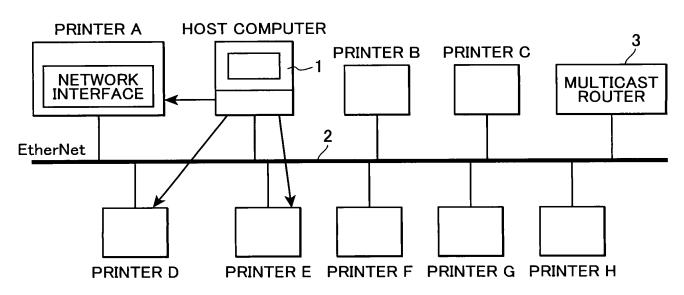


FIG.2

HOST COMPUTER		PRINTERS
BROADCAST	OF SEARCH CONDITIONS	
	IP, NAME, LOCATION, 10ppm	PRINTER A
	IP, NAME, LOCATION, 10ppm	PRINTER B
	IP, NAME, LOCATION, 10ppm	PRINTER C
	IP, NAME, LOCATION, 10ppm	PRINTER D
	IP, NAME, LOCATION, 20ppm	PRINTER E
		PRINTER F
		PRINTER G
		PRINTER H



FIG.3(a)

SELECT PRIN	TERS				
IP ADRESS	NAME	LOCATION	SPEED	COPIES	
133.151.12.34	PRINTER A	Bill's desk	10ppm	1	10
133.151.54.35	PRINTER B	John's desk	10ppm	1	
133.151.54.46	PRINTER C	cpu room	10ppm	11	į
133.151.12.72	PRINTER D	cpu room	10ppm	1	
133.151.12.54	PRINTER E	Tom's desk	20ppm	1	
			OI	<	
				11	••

FIG.3(b)

	SELECT PRIN	TERS					
	IP ADRESS	NAME	LOCATION	SPEED	COPIES	_	
ļ	133.151.12.34	PRINTER A	Bill's dæk	10ppm	1	10	)
	133.151.54.35	PRINTER B	John's desk	10ppm	1		
	133.151.54.46	PRINTER C	cpu room	10ppm	11		
	133.151.12.72	PRINTER D	abri koaw	10ppm	1		
	133.151.12.54	PRINTER E	Tom's desk	20ppm	2	l l	
				Ol	K		
					11		



FIG.4

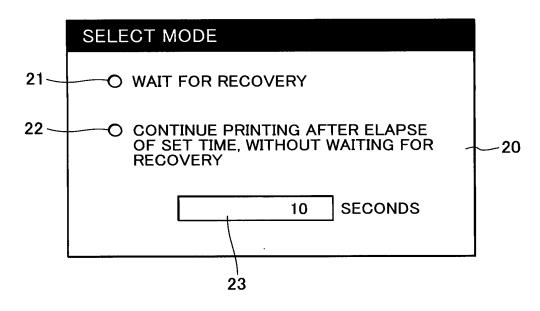


FIG.5

HOST COMPUTER	PRINTERS	
joinGroup (239.255.22.22)  ACK	133.151.12.34	PRINTER A
joinGroup (239.255.22.22) ★ ACK	133.151.12.72	PRINTER D
joinGroup (239.255.22.22)  ACK	133.151.12.54	PRINTER E



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	HOST COMPUTER	PRINTERS	
F10.0( )	PRINT DATA seq=1	239.255.22.22	
FIG.6(a)	seq=1 ACK	133.151.12.34	PRINTER A
	seq=1 ACK	133.151.12.72	PRINTER D
	seq=1 ACK	133.151.12.54	PRINTER E
	•		
	HOST COMPUTER	PRINTERS	
	PRINT DATA seq=2	239.255.22.22	
FIG.6(b)	seq=2 ACK	133.151.12.34	PRINTER A
	seq=2 ACK	133.151.12.72	PRINTER D
	seq=2 RESEND	133.151.12.54	PRINTER E
	•		
	HOST COMPUTER	PRINTERS	
	TIOST COMIL CTER	TIMITENS	
	PRINT DATA seq=2	239.255.22.22	
FIG.6(c)	,	133.151.12.34	PRINTER A
		133.151.12.72	PRINTER D
	seq=2 ACK	133.151.12.54	PRINTER E
	HOST COMPUTER	PRINTERS	
	PRINT DATA seq=3	239.255.22.22	
FIG.6(d)			
•	seq=3 ACK	133.151.12.72	PRINTER D
	seq=3 ACK	133.151.12.54	PRINTER E
	HOST COMPUTER	PRINTERS	
	5 SECONDS ELAPSED	TAMELO	
		220 2FF 22 22	
FIG.6(e)	PRINT DATA seq=3	239.255.22.22	
	seq=3 ACK	133.151.12.34	PRINTER A
		133.151.12.72	PRINTER D
		133.151.12.54	PRINTER E

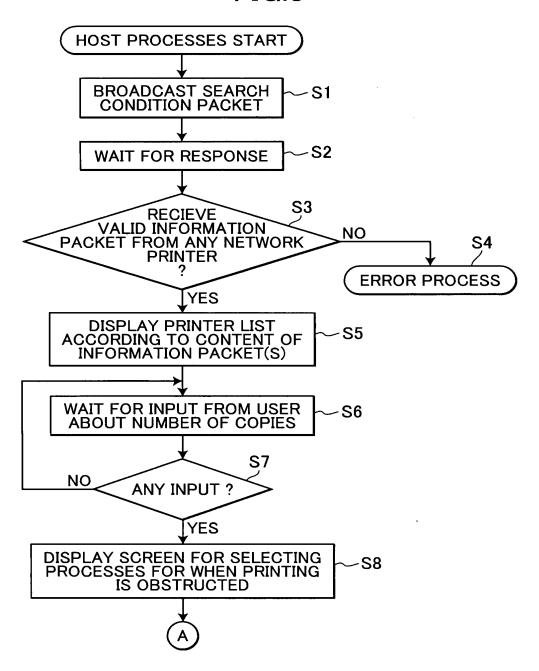




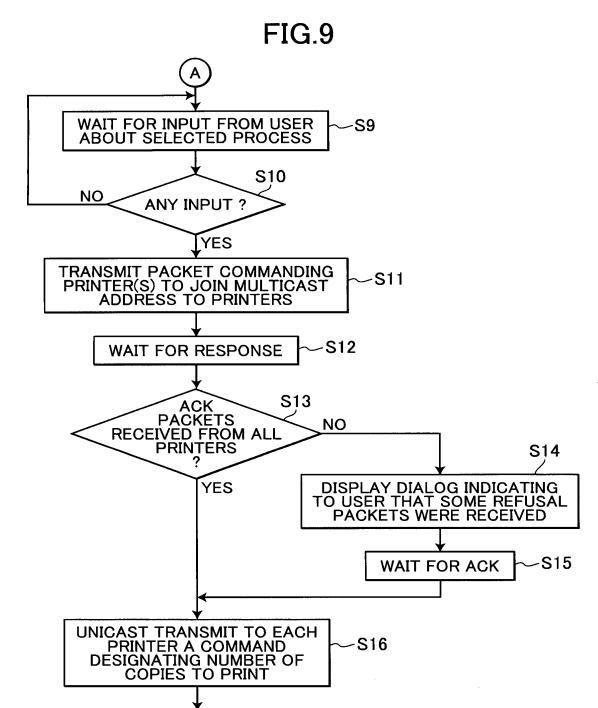
	HOST COMPUTER	PRINTERS	
FIG.7(a)	PRINT DATA seq=4	239.255.22.22	
	seq=4 ACK seq=4 ACK	133.151.12.72 133.151.12.54	PRINTER D PRINTER E
	HOST COMPUTER	PRINTERS	
	5 SECONDS ELAPSED		
FIG.7(b)	PRINT DATA seq=4	239.255.22.22	
		133.151.12.72	PRINTER D
		133.151.12.54	PRINTER E
	HOST COMPUTER	PRINTERS	
	10 SECONDS ELAPSED		
FIG.7(c)	PRINT DATA seq=5 ➤	239.255.22.22	
	seq=5 ACK	133.151.12.72	PRINTER D
	seq=5 ACK	133.151.12.54	PRINTER E
	HOST COMPUTER	PRINTERS	
	LEAVE GROUP (239.255.22.22)	133.151.12.34	PRINTER A
FIG.7(d)	<b>←</b> OK		
	LEAVE GROUP (239.255.22.22) OK	133.151.12.72	PRINTER D
		100 151 10 54	
	LEAVE GROUP (239.255.22.22) OK	133.151.12.54	PRINTER E



FIG.8



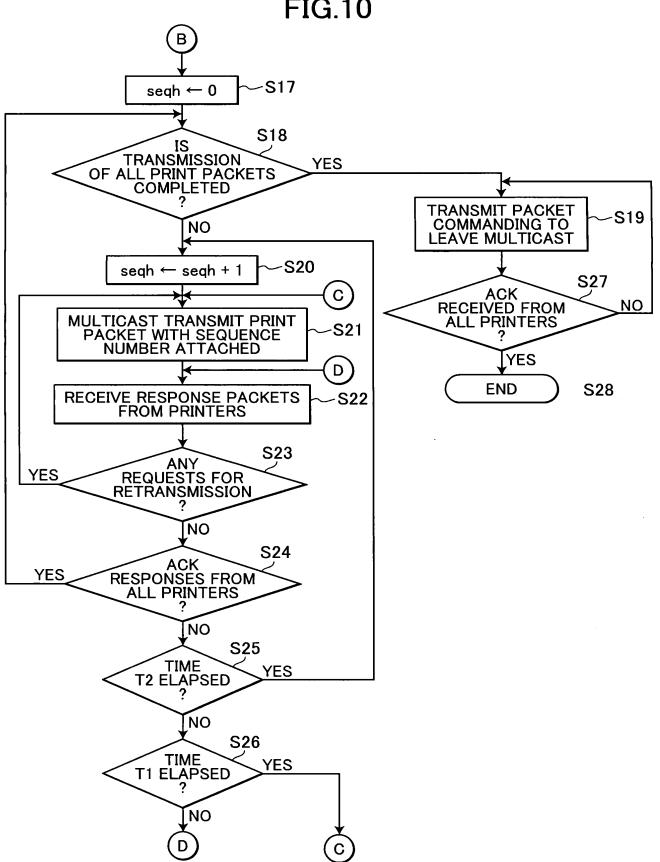


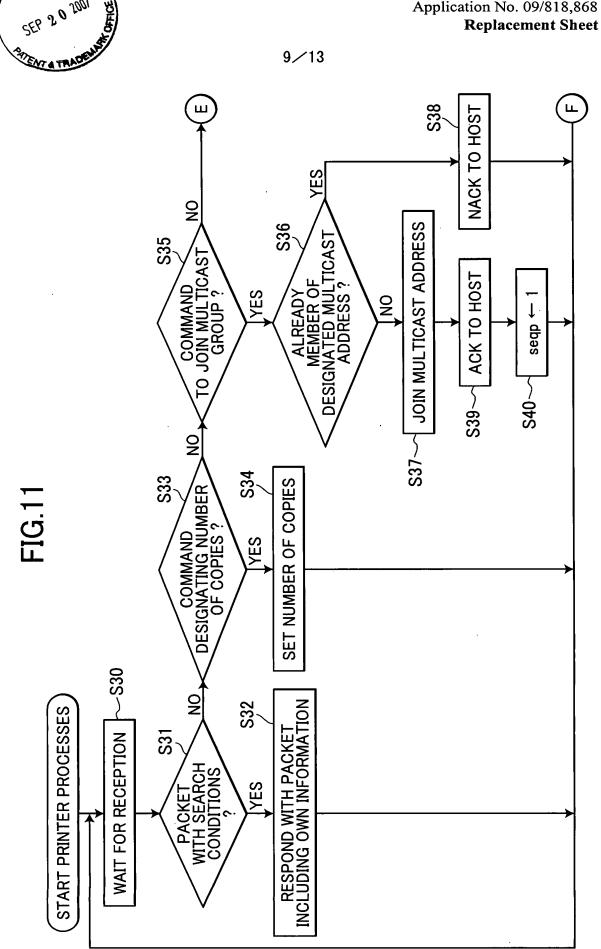


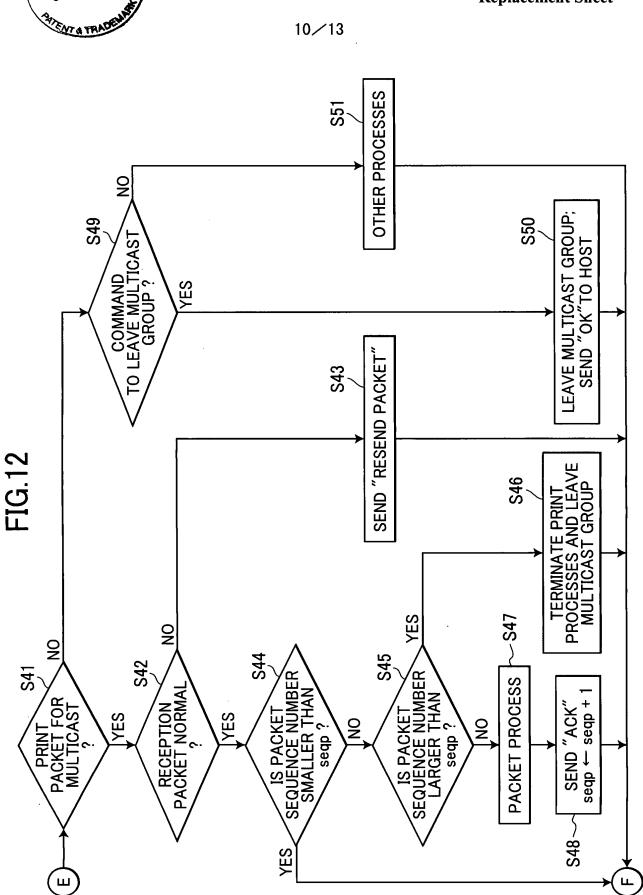


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## FIG.13

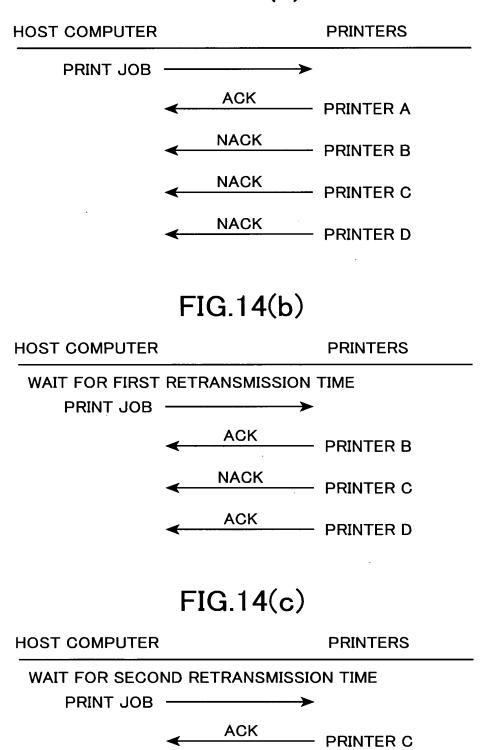
#### JOB PRINT INFORMATION MANAGEMENT BLOCK

NUMBER	OF	RETRANSMISSIONS	3
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FIRST RETRANSMISSION TIME	3HRS 30MIN
SECOND RETRANSMISSION TIME	4HRS 00MIN
THIRD RETRANSMISSION TIME	24HRS 00MIN

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# FIG.14(a)





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### FIG.15(a)

FIG. 15(a)				
HOST COMPL	JTER	PRINTERS		
PRINT JOB	<del></del>	PRINTER A ACK		
PRINT JOB	<del></del>	PRINTER B NACK		
PRINT JOB	<b></b>	PRINTER C NACK		
PRINT JOB	<del></del>	PRINTER D NACK		
	FIG.15(b)			
HOST COMPL	JTER 	PRINTERS		
WAIT FOR FIRST RETRANSMISSION TIME				
PRINT JOB	<b></b>	PRINTER B		
	<b>~</b>	ACK		
PRINT JOB	<del></del>	PRINTER C		
	<b>~</b>	NACK		
PRINT JOB	<b></b>	PRINTER D		
	<del>-</del>	ACK		
FIG.15(c)				
HOST COMPL	JTER	PRINTERS		
WAIT FOR SECOND RETRANSMISSION TIME				
PRINT JOB	<b></b>	PRINTER C		
	•	ACK		